SYSPARM Utility SYSPARM Utility

# **SYSPARM Utility**

The utility SYSPARM is used for creating and maintaining a set of Natural profile parameters that is stored under a profile name.

When invoking Natural with dynamic profile parameters, you can specify individual parameters each time you invoke Natural. More comfortably, however, you can specify a set of parameters once in SYSPARM, store this set under a profile name, and then invoke Natural with only one dynamic parameter: PROFILE=*profile-name*. The parameters defined in this profile are then passed to Natural as dynamic parameters and must therefore comply with the syntax of PROFILE as described in the Natural Parameter Reference documentation.

For descriptions of the individual profile parameters that can be specified in a profile, refer to Profile Parameters in the Natural Parameter Reference documentation.

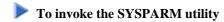
The profiles are stored in the Natural system file FNAT or FUSER. The database ID (DBID) and file number (FNR) of the current FNAT system file are shown on the SYSPARM Menu.

To restrict the use of a profile to specific users, you use the profile parameter USER (as described in the Natural Parameter Reference documentation).

The SYSPARM utility documentation covers the following topics:

- Invoking SYSPARM
- List Profiles
- Display Profile
- Add New Profile
- Modify Profile
- Editing Profiles
- Copy Profile
- Delete Profile
- Direct Commands and Batch Processing

## **Invoking SYSPARM**



• In the direct command line, enter SYSPARM.

The Natural SYSPARM Utility Menu is displayed.

The SYSPARM Menu provides the following fields and functions:

List Profiles SYSPARM Utility

Field/Function	Explanation
List Profiles	Displays a list of all profiles. From the list, you can select a profile for display, modification or deletion.  See: List Profiles.
Display Profile	Displays a specific profile. See: Display Profile
Add New Profile	Creates a new profile. See: Add New Profile and Editing Profiles.
Modify Profile	Changes an existing profile. See: Modify Profile and Editing Profiles.
Copy Profile	Creates a new profile by copying an existing one. See: Copy Profile
Delete Profile	Deletes an existing profile. See: Delete Profile
Profile	Selects the profile specified. Enter a valid profile name or use asterisk (*) notation to select a range of profiles. Use asterisk (*) or a blank field to select all profiles available.
Copy to	Copies the profile specified.
DBID/FNR	Selects the database ID (DBID) and file number (FNR) of the Natural system file where the profile resides. Default is the current FNAT.
Password/Cipher	Specifies the password (8 characters) and the cipher code (8 digits) of the Adabas file.

The SYSPARM functions listed above are described in the remainder of this documentation.

## **List Profiles**

This function displays a list of all existing profiles.

### To invoke the List Profiles function

- On the SYSPARM Menu, enter Function Code L and, in the Profile field, enter the name of a profile or specify a range of names:
  - O To list all profiles, enter an asterisk (\*) or leave the field blank.
  - O To list all profiles with names that start with a specified value, use asterisk (\*) notation, for example, ABC\*
  - O To list all profiles with names greater than or equal to a specified value, use the sign greater than (>), for example, ABC>.
  - O To list all profiles with names with names less than a specified value, use the sign less than (<), for example, ABC<.

The List Profiles screen is displayed.

On the List Profiles screen, press PF7 or PF8 to scroll the list up or down.

Listed below are the PF keys and line commands available to select a profile for display, modification or deletion. Mark a profile with the cursor and press the appropriate PF key, or enter a line command in the Sel. column next to the profile and press ENTER:

SYSPARM Utility Display Profile

Key	Line Command	Function
PF4	D	Invokes the Display Profile function for the profile specified.
PF5	M	Invokes the Modify Profile function for the profile specified.
PF6	X	Invokes the Delete Profile function for the profile specified.

## **Display Profile**

This function is used to display an existing profile.

### To invoke the Display Profile function

• On the SYSPARM Menu, enter Function Code **D** and the name of a profile. Or, from the List Profiles screen, select a profile as described in the relevant section.

The Display Profile screen appears displaying the profile specified.

To modify the profile, press PF5, which invokes the Modify Profile function (see below).

### **Add New Profile**

This function is used to create a new profile.

### To invoke the Add New Profile function

• On the SYSPARM Menu, enter Function Code A and the name of a profile.

On the screen displayed, enter the profile parameters to be included in the profile as described in Editing Profiles.

## **Modify Profile**

This function is used to change an existing profile.

## To invoke the Modify Profile function

On the SYSPARM Menu, enter Function Code M and the name of a profile.
 Or, on the Display Profile screen, press PF5.
 Or, from the List Profiles screen, select a profile as described in the relevant section.

A screen (similar to the screen for adding new profiles) is displayed on which you can modify the profile selected: see Editing Profiles below.

## **Editing Profiles**

The screen provided for adding or modifying a profile contains 18 input lines with a maximum length of 72 characters each. The individual parameters entered must be separated from one another by (one or more) blanks or commas. You can spread the specification of the parameters over as many lines as you like.

If you need additional space for editing or want to combine different profiles or group profiles by categories, concatenate multiple profiles by entering the PROFILE parameter as the last entry in the profile(s) concerned. The first profile then evaluates the parameter strings specified in the second profile as part of the string of the first profile.

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#### **Example:**

PROFILE=P2 entered at the end in Profile P1, and PROFILE=P3 entered at the end in Profile P2, firstly invokes P1 and then P2 followed by P3.

You can enter a commentary text in each editor line, or spread a comment over as many lines as you like. Comments must be preceded by /\* and followed by \*/.

Below is information on:

- Functions
- Help with Parameters

#### **Functions**

The following functions are available on the screen provided for editing profiles:

Key	Function
PF4	Checks whether the parameter specifications within the profile are syntactically correct.
PF5	Stores the profile.
PF9	Inserts one blank line below the line containing the cursor.
PF10	Deletes the line containing the cursor.
PF11	Copies the line containing the cursor.

### **Help with Parameters**



### To invoke help information on a specific profile parameter

- In the field "Help with Parameters":
  - O Enter the name of a parameter.
  - Or, enter a character string with asterisk (\*) notation.
    - All parameters whose names begin with that character string are listed.
    - Select a parameter by marking it with any character.
  - Or, enter an asterisk (\*).
    - A list of all parameters is displayed.
    - Select a parameter by marking it with any character.
- Press ENTER.

Or, place the cursor at a certain editor line and press ENTER as described under Special Positioning below.

The screen that appears contains two sections:

- The upper section with help text on the parameter specified.
  - If the text extends beyond the current screen, in the field More Help, enter a plus (+) sign to display the next screen.
  - Enter a minus (-) sign to return to the previous screen or enter a period (.) to terminate the Help with Parameters function.
- The lower section "Enter your parameter specification".
- Under "Enter your parameter specification", enter a parameter specification.
- Press PF4 to have your parameter specifications checked.
- Press PF3 to terminate the Help with Parameters function and add the parameter specifications at the bottom of your profile or at the position marked earlier: see Special Positioning below.

SYSPARM Utility Copy Profile

#### **Special Positioning**

To add new parameter specifications at a certain position in the profile:

- In the field "Help with Parameters", enter a value (or an asterisk) and do **not** press ENTER.
- Position the cursor at the editor line below which you want the new parameter specifications to be placed.
- Press ENTER to invoke the Help with Parameters function and enter a parameter specification.
- Press PF3.

The new parameter specification is added below the editor line marked earlier.

## **Copy Profile**

This function is used to create a new profile by copying an existing one.

With this function, you can copy profiles only within the same Natural system file. To copy a profile from one Natural system file to another, use the utility SYSMAIN as described in the relevant documentation.

### To invoke the Copy Profile function

- On the SYSPARM Menu:
  - Enter Function Code C.
  - In the field Profile, enter the name of an existing profile.
  - In the field Copy To, enter the name of the new profile.

### **Delete Profile**

This function is used to delete an existing profile.

### To invoke the Delete Profile function

• On the SYSPARM Menu, enter Function Code **X**. Or, from the List Profiles screen, select a profile as described in the relevant section.

The Delete a Profile window is displayed.

- In the Delete a Profile window:
  - Confirm the deletion by entering the name of the profile and pressing ENTER.
  - Or, press ENTER without entering anything to cancel the action.

## **Direct Commands and Batch Processing**

The SYSPARM utility functions can also be executed in direct-command mode or batch mode.

In addition to the functions provided via the SYSPARM utility menus, options are provided in batch mode for specifying commentary text, the input delimiter and the input assign character.

#### **Related Topics about Batch Mode:**

Natural in Batch Mode (Natural Operations documentation)

Using the INPUT Statement in Non-Screen Modes (Natural Statements documentation)

Using the INPUT Statement in Batch Mode on Mainframe Computers (Natural Statements documentation)

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Batch Processing SYSPARM Utility

The following section contains information on:

- Batch Processing
- Syntax of SYSPARM
- with-clause
- where-clause
- Example of SYSPARM in Batch

### **Batch Processing**

Described below are general instructions that apply when executing SYSPARM in batch mode:

- To terminate SYSPARM, in a separate line, enter a period (.) or FIN, where FIN ends the Natural session.
- To execute more than one SYSPARM function, specify each function in a separate line.
- To extend a function over two lines, anywhere in the first line enter the character defined with the session parameter CF (default is %). This indicates continuation on the next line.

See also Example of SYSPARM in Batch below.

### Syntax of SYSPARM

Displayed below is the syntax that applies when processing SYSPARM direct commands or in batch mode. For the restrictions that apply when using direct commands, see the explanations of keywords below.

The symbols used in the diagram are explained in the section System Command Syntax in the Natural System Command Reference documentation.

```
<u>A</u>DD
                              MODIFY
                                                                              [ where-clause ]
                                                                                                  [ with-clause ]
                              DISPLAY
                              DELETE | X
                                                   profile-name
                                                                              [ where-clause ]
                              COPY
                                                   profile-name1
                                                                              TO profile-name2
                                                                                                  [ where-clause ]
[SYSPARM]
                              ASSIGN
                                                   [character]
                              DELIMITER
```

#### **Explanation of Keywords**

The following section contains a brief description of the keywords and clauses indicated in the SYSPARM syntax diagram above, along with special instructions, if required. For details on the keywords that represent commands, refer to the corresponding SYSPARM functions described earlier in this section.

In addition, Example of SYSPARM in Batch below demonstrates the use of the keywords and clauses.

SYSPARM Utility Syntax of SYSPARM

Keyword	Explanation
SYSPARM	Invokes the SYSPARM utility. This keyword is only required when executing SYSPARM commands from the NEXT or MORE prompt.
<u>A</u> DD	Executes the Add Profile function.
	Use the keyword WITH to clearly separate the command ADD from the input line(s) that follows and that makes up the contents of the profile.
	For example:
	ADD profile-name WITH AUTO=ON
	To terminate an ADD command, enter a period (.) in a separate line.
	See also Editing Profiles.
<u>M</u> ODIFY	Executes the Modify Profile function.
	To terminate a MODIFY command, enter a period (.) in a separate line as shown in the example below.
	To insert a commentary text in a profile, place the comment between the characters /* and */.
<u>D</u> ISPLAY	Executes the Display Profile function.
<u>L</u> IST	Executes the List Profiles function.
DELETE or X	Executes the Delete Profile function.
<u>C</u> OPY	Executes the Copy Profile function.
ASSIGN	Specifies or displays the input assign character. You need to change the input assign character before you start processing data that contains the input assign character defined for your current session. Otherwise, you will receive Natural error NAT1105 (Undefined keyword in input).
	If no value is specified, the output contains the character defined for your current session.
<u>DELIM</u> ITER	Specifies or displays the input delimiter character. You need to change the input delimiter character before you start processing data that contains the input delimiter character defined for your current session. Otherwise, you will receive Natural error NAT1105 (Undefined keyword in input).
	If no value is specified, the output contains the character defined for your current session.

Syntax of SYSPARM Utility

Keyword	Explanation
SYSPARM	Invokes the SYSPARM utility. This keyword is only required when executing SYSPARM commands from the NEXT or MORE prompt.
<u>A</u> DD	Executes the Add Profile function.
	Use the keyword WITH to clearly separate the command ADD from the input line(s) that follows and that makes up the contents of the profile.
	For example:
	ADD profile-name WITH AUTO=ON
	To terminate an ADD command, enter a period (.) in a separate line.
	See also Editing Profiles.
<u>M</u> ODIFY	Executes the Modify Profile function.
	To terminate a MODIFY command, enter a period (.) in a separate line as shown in the example below.
	To insert a commentary text in a profile, place the comment between the characters /* and */.
<u>D</u> ISPLAY	Executes the Display Profile function.
<u>L</u> IST	Executes the List Profiles function.
DELETE or X	Executes the Delete Profile function.
COMMENT	Not applicable to the command REPLACE.
	Activates (ON) the comment option and writes a comment after each parameter that is modified, or deactivates (OFF) the comment option.
	If activated, and if no individual <i>comment</i> has been specified (see below), the comment inserted for each parameter contains the following data:
	• The ID of the user who last modified the profile as generated by the Natural system variable *USER and
	<ul> <li>The date and time when the profile was last modified as generated by the Natural system variables *DATV and *TIMX.</li> <li>(See also the relevant sections in the documentation Natural System Variables.)</li> </ul>
-14	To modify a comment, use the REPLACE command (see below).
character	Any special character: see the Natural session parameters ID (Input Delimiter Character) and IA (Input Assign Character) described in the section Session Parameters in the Natural Parameter Reference documentation.
comment	A commentary text that is to be placed between the characters /* and */.
profile-name	The name of a profile or a range of profiles:
	Ranges of profiles are only allowed with the command LIST or, in batch mode, the command LIST or DISPLAY.

SYSPARM Utility where-clause

Keyword	Explanation		
SYSPARM	Invokes the SYSPARM utility. This keyword is only required when executing SYSPARM commands from the NEXT or MORE prompt.		
<u>A</u> DD	Executes the Add Profile function.		
	Use the keyword WITH to clearly separate the command ADD from the input line(s) that follows and that makes up the contents of the profile.		
	For example:		
	ADD profile-name WITH AUTO=ON		
	To terminate an ADD command, enter a period (.) in a separate line.		
	See also Editing Profiles.		
<u>M</u> ODIFY	Executes the Modify Profile function.		
	To terminate a MODIFY command, enter a period (,) in a separate line as shown in the example below.		
	To insert a commentary text in a profile, place the comment between the characters /* and */.		
<u>D</u> ISPLAY	Executes the Display Profile function.		
<u>L</u> IST	Executes the List Profiles function.		
DELETE or X	Executes the Delete Profile function.		
profile-name1	Only applies to the command COPY.		
profile-name2	The source profile ( <i>profile-name1</i> ) from which to create a new profile ( <i>profile-name1</i> ), and the target profile ( <i>profile-name2</i> ) into which to copy the data.		
WHERE	Optional keyword that indicates the start of a <i>where-clause</i> . See where-clause below.		
WITH	Only applies to the commands ADD, DISPLAY, MODIFY and LIST.		
	When used in connection with ADD, the <i>with-clause</i> consists of the keyword WITH followed by the profile contents.		
	Optional keyword that indicates the start of a with-clause. See with-clause below.		
	Only applies in batch mode.		
	Illustrates that you can specify more than one SYSPARM function by placing each function in a separate line.		

### where-clause

[WHERE] [DBID dbid] [FNR fnr] [PASSWORD password] [CIPHER cipher]

with-clause SYSPARM Utility

Below is a description of the keywords that are indicated in the *where-clause* and the values that apply:

#### Explanation of Keywords - where-clause

The *where-clause* is optional. Its syntax is as follows:

Keyword	Valid Values
DBID	The database ID (DBID) of the Adabas file where the profile is stored.
FNR	The file number (FNR) of the Adabas file where the profile is stored.
PASSWORD	The 8-character Adabas password of the Adabas file where the profile is stored.
CIPHER	The 8-digit cipher code of the Adabas file where a profile is stored.

#### with-clause

The with-clause is optional and applies to the commands ADD, DISPLAY, MODIFY and LIST. Its syntax is as follows:

#### **Explanation of Keywords - with-clause**

Below is a description of the keywords that are indicated in the with-clause and the values that apply:

Keyword	Valid Values		
SCAN	Only applies to the commands LIST and DISPLAY.		
	Scans one or more profiles available in the current Natural system file for a <i>text</i> string (for example, a parameter or a parameter value) and provides a list of the profiles that contain the <i>text</i> string specified.		
NOSCAN	Only applies to the commands LIST and DISPLAY.		
	Exempts a <i>text</i> string from the scan over one or more profiles available in the current Natural system file and provides a list of the profiles that do <b>not</b> contain the text string specified.		
ASSIGN	See ASSIGN above.		
<u>DELIM</u> ITER	See DELIMITER above.		

SYSPARM Utility with-clause

Keyword	Valid Values	
COMMENT	See COMMENT above.	
<u>F</u> IRST	Moves a parameter and its value or a comment to the first position in a profile.  This can be required, for example, if you want to specify the profile parameter PARM.	
	Comments contained in the first position of a profile will remain in this position. A parameter and its value will only be moved to the first position if no comment occupies this position. Otherwise, the parameter will be appended after the comment(s). A comment inserted with FIRST will always be placed in the first position, before any comment(s) that originally occupied this position.	
<u>L</u> INE	Places the parameter(s) specified after LINE in a new line at the end of a profile.	
<u>N</u> EW	Appends a parameter at the end of a profile but not necessarily in a new line. To place a parameter in a new line, use the parameter LINE.	
<u>REM</u> OVE	Removes a parameter and the value assigned (including parentheses) from a profile. The parameter to be removed can be a subparameter, such as the profile parameter DFS, which is a subparameter of the profile parameter RPC.	
<u>REP</u> LACE	Replaces an old <i>text</i> string with a new <i>text</i> string contained in a profile. See also the option COMMENT above.	
<u>U</u> PDATE	Updates the value assigned to a parameter.  If the parameter specified does not exist yet, it will be appended to the profile.	
parm-name	The full name of a parameter.	
comment	See comment above.	
parm-value	The value assigned to a parameter.	

Keyword	Valid Values			
text	Any text string contained in a profile.			
	The following applies to the commands SCAN and NOSCAN: The text string must not contain any blank characters.			
	The following applies to the REPLACE command:			
	If neither the old <i>text</i> nor the new <i>text</i> contains blank characters, place a blank character between old and new <i>text</i> .  If the old <i>text</i> or the new <i>text</i> contains blank characters, place the input delimiter character specified between old <i>text</i> and new <i>text</i> and around the entire old/new <i>text</i> string.			
	For example:			
	;This comment is old;This comment is new;			
	As an alternative to the delimiter character specified, you can choose any of the following characters:			
	' A single quotation mark.			
	, A comma.			
	. A period.			
	; A semicolon.			
	/ A slash.			
	\ A back slash.			
	A vertical bar.			
ADD	Increases the size of a parameter value by adding the number specified.  The addition can be limited to a maximum or minimum value by specifying MAX or MIN (see below).			
SUBTRACT	Decreases the size of a parameter value by subtracting the number specified.  The subtraction can be limited to a maximum or minimum value by specifying MAX or MIN (see below).			
MAX	Specifies the maximum of a parameter value.			
MIN	Specifies the minimum of a parameter value.			
number	A numeric value.			

## **Example of SYSPARM in Batch**

The example profile and the example input below illustrate the use of SYSPARM commands and the result of profile modifications executed in batch:

- Example Profile TESTPROF Before Job Execution
- Example Input
- Example Profile TESTPROF After Job Execution
- Example Profile TESTPRO1 After Job Execution

#### **Example Profile TESTPROF - Before Job Submission**

```
/* This is a test profile. */
AUTO=ON FNAT = (102,110,PASSWORD) FUSER=(1099,1100,PASSWORD,12345678)
RPC=(RPCSIZE=80,SRVNAME=MYSERV,SERVER=ON,DFS=(SRV2,NODE1,,ACI))
PRINT=((2,12,18),AM=STD,DEST='PRINT**',OPEN=INITOBJ,CLOSE=CMD)
PRINT=((1,3,6-11,15),AM=NAF)
ESIZE=90
```

#### **Example Input**

```
/*JCL
* /
SYSPARM
COPY TEST1 TO TESTPROF WHERE DBID 10 FNR 32
DTSP
     TESTPROF
COMMENT ON /* TESTUSER 29.Jul.2003 */
MODIFY TESTPROF with REM DFS
  REPLACE ; test profile; test profile for SYSPARM in batch;
  NEW BPSIZE 4096
  UPDATE ESIZE ADD 20 MAX 100
  FIRST PARM INHOUSE
  DELIMITER $
  UPDATE FUSER (,6)
   ASSIGN :
  LINE IM=D, INTENS=1, AUTO=T, MT=0, MADIO=0
DISP
      TESTPROF
ADD TESTPRO1 WITH /* 106,210 */
   FNAT=(106,210,PASSWORD),FUSER=(,211)
DISPLAY TESTPRO1
DELETE TESTPRO2 WHERE DBID 10 FNR 32
X TESTPRO3 WHERE DBID 10 FNR 32
FIN
```

#### **Example Profile TESTPROF - After Job Execution**

```
/* This is a test profile for SYSPARM in batch. */
PARM=INHOUSE /* TESTUSER 29.Jul.2003 */
AUTO=ON FNAT = (102,110,PASSWORD) FUSER=(,6) /* TESTUSER 29.Jul.2003 */
RPC=(RPCSIZE=80,SRVNAME=MYSERV,SERVER=ON, )
PRINT=((2,12,18),AM=STD,DEST='PRINT**',OPEN=INITOBJ,CLOSE=CMD)
PRINT=((1,3,6-11,15),AM=NAF)
ESIZE=100 /* TESTUSER 29.Jul.2003 */ BPSIZE=4096 /* TESTUSER 29.Jul.2003
*/
IM=D, INTENS=1, AUTO=T, MT=0, MADIO=0 /* TESTUSER 29.Jul.2003 */
```

#### **Example Profile TESTPRO1 - After Job Execution**

```
/* 106,210 */
FNAT=(106,210,PASSWORD),FUSER=(,211)
```